

Appendix E

TREX and TEHERP Model Runs (only listed for avocado use which represented the highest application rate and highest RQs among all the modeled uses)

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table X. Upper Bound Kenaga, Acute Avian Dose-Based Risk Quotients									
Size Class (grams)	Adjusted LD50	EECs and RQs							
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
20	0.00	2177.62	#####	998.07	#####	1224.91	#####	136.10	#####
100	0.00	1241.77	#####	569.14	#####	698.50	#####	77.61	#####
1000	0.00	555.96	#####	254.81	#####	312.73	#####	34.75	#####

Table X. Upper Bound Kenaga, Subacute Avian Dietary Based Risk Quotients								
LC50	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
3401	1912.04	0.56	876.35	0.26	1075.52	0.32	119.50	0.04

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Avian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
85	1912.04	22.57	876.35	10.35	1075.52	12.70	119.50	1.41

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Acute Mammalian Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
15	5800.07	1822.98	0.31	835.53	0.14	1025.43	0.18	113.94	0.02	25.32	0.00
35	4692.88	1259.92	0.27	577.46	0.12	708.71	0.15	78.75	0.02	17.50	0.00
1000	2029.81	292.12	0.14	133.89	0.07	164.32	0.08	18.26	0.01	4.06	0.00

Table X. Upper Bound Kenaga, Acute Mammalian Dietary Based Risk Quotients								
LC50 (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
0	1912.04	#####	876.35	#####	1075.52	#####	119.50	#####

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Mammalian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf		Fruits/Pods/	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ

Summary of Risk Quotient Calculations Based on Mean Kenaga EECs

Table X. Mean Kenaga, Acute Avian Dose-Based Risk Quotients									
Size Class (grams)	Adjusted LD50	EECs and RQs							
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
20	0.00	771.98	#####	326.96	#####	408.70	#####	63.58	#####
100	0.00	440.17	#####	186.42	#####	233.03	#####	36.25	#####
1000	0.00	196.38	#####	83.17	#####	103.97	#####	16.17	#####

Table X. Mean Kenaga, Subacute Avian Dietary Based Risk Quotients								
LC50	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
3401	677.18	0.199	286.81	0.084	358.51	0.105	55.77	0.016

Size class not used for dietary risk quotients

Table X. Mean Kenaga, Chronic Avian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
85	677.18	7.995	286.81	3.386	358.51	4.233	55.77	0.658

Size class not used for dietary risk quotients

Table X. Mean Kenaga, Acute Mammalian Dose-Based Risk Quotients										
Size Class (grams)	Adjusted LD50	EECs and RQs								
		Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Granivore
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	
15	5800.07	643.32	0.111	272.47	0.047	340.58	0.059	52.98	0.009	11.71
35	4692.88	446.94	0.095	189.29	0.040	236.61	0.050	36.81	0.008	8.37
1000	2029.81	101.58	0.050	43.02	0.021	53.78	0.026	8.37	0.004	1.67

Table X. Mean Kenaga, Acute Mammalian Dietary Based Risk Quotients								
LC50 (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
0	677.18	#####	286.81	#####	358.51	#####	55.77	#####

Size class not used for dietary risk quotients

Table X. Mean Kenaga, Chronic Mammalian Dietary Based Risk Quotients								
NOAEC (ppm)	EECs and RQs							
	Short Grass		Tall Grass		Broadleaf		Fruits/Pods/	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ

THERPS MODEL OUTPUT (only listed for avocado use which represented the highest application rate and highest RQs among all the modeled uses)

Summary of Risk Quotient Calculations Based on Upper Bound Kenaga EECs

Table X. Upper Bound Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammal		Small Amphibians	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1.4	0.00	41.79	#####	4.64	#DIV/0!	N/A	N/A	N/A	N/A	N/A	N/A
37	0.00	41.07	#####	4.56	#DIV/0!	1191.82	#####	74.49	#DIV/0!	1.43	#####
238	0.00	26.91	#####	2.99	#DIV/0!	185.28	#####	11.58	#DIV/0!	0.93	#####

Table X. Upper Bound Kenaga, Subacute Terrestrial Herpetofauna Dietary Based Risk Quotients										
LC50 (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
3401	1075.52	0.32	119.50	0.04	1259.92	0.37	78.75	0.02	37.33	0.01

Size class not used for dietary risk quotients

Table X. Upper Bound Kenaga, Chronic Terrestrial Herpetofauna Dietary Based Risk Quotients										
NOAEC (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
85	1075.52	12.70	119.50	1.41	1259.92	14.88	78.75	0.93	37.33	0.44

Size class not used for dietary risk quotients

Summary of Risk Quotient Calculations Based on Mean Kenaga EECs

Table X. Mean Kenaga, Acute Terrestrial Herpetofauna Dose-Based Risk Quotients											
Size Class (grams)	Adjusted LD50	EECs and RQs									
		Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
		EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
1.4	0.00	13.93	#####	2.17	#DIV/0!	N/A	N/A	N/A	N/A	N/A	N/A
37	0.00	13.69	#####	2.13	#DIV/0!	422.10	#DIV/0!	34.76	#DIV/0!	0.48	#DIV/0!
238	0.00	8.97	#####	1.40	#DIV/0!	65.62	#DIV/0!	5.40	#DIV/0!	0.31	#DIV/0!

Table X. Mean Kenaga, Subacute Terrestrial Herpetofauna Dietary Based Risk Quotients										
LC50 (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
3401	358.51	0.105	55.77	0.016	446.22	0.1312	36.75	0.011	12.44	0.004

Size class not used for dietary risk quotients

Table X. Mean Kenaga, Chronic Terrestrial Herpetofauna Dietary Based Risk Quotients										
NOAEC (ppm)	EECs and RQs									
	Broadleaf Plants/ Small Insects		Fruits/Pods/ Seeds/ Large Insects		Small Herbivore Mammals		Small Insectivore Mammals		Small Amphibians	
	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ	EEC	RQ
85	358.51	4.233	55.77	0.658	446.22	5.2683	36.75	0.434	12.44	0.147

Size class not used for dietary risk quotients